

Smart Grid Solutions— AMI Services



Safe, Reliable, Cost-Effective Solutions for the Electrical Power Industry.



As part of our continuing effort to provide leading edge Smart Grid Solutions to our client base, CE Power is pleased to announce a complete offering of services relative to Advanced Metering Infrastructure (AMI).

- **Increased Reliability** •
- **Cost Reduction** •
- **Enhanced Customer Experience** •

Integrity with flexibility...CE Power allows clients to achieve their overall AMI vision by leveraging the experience and knowledge of our experts to build an Advanced Metering Infrastructure. We provide comprehensive engineering support to include set up of in-house testing as well as allowing outsourcing part or all testing to CE Power.

Engineering Services for Program Model Development

- Business process and associated (anticipated) changes
- Data model integration and validation
- Hardware, firmware and software specifications and contractual terms
- Field return/RMA process and software
- Meter programming
- Data analytics for revenue recovery
- Reliability engineering
- Meter testing program development (In-House)
- Roll out and deployment assistance



Evaluation Engineering Tests

- Product qualification testing—ANSI C12.1 and ANSI C12.20, in addition to “lessons learned” beyond what the standards have been able to publish to date
- Electromagnetic compatibility testing—ANSI C62.41, ANSI C37.90 & 91, Burst Test, ESD
- Accelerated aging tests—Temperature, Humidity
- Environmental testing
- Quality Assurance/Deployment
- Field returns unit testing

Meter Testing

- Accuracy testing—ANSI C12.1 and C12.20
- Accuracy validation programs: in-service sampling
- 3rd Party Public Service Commission mandated testing
- 3rd Party high bill investigations (customer complaint)
- Revenue recovery testing
- AMI communications, HAN and switch testing



Network Gear Testing and Repair

- Access points
- Relays

Engineering Consulting and Turnkey Services

- Business Case Development
- Technology Evaluation
- Roll-out and Implementation
- System Design



CE POWER SOLUTIONS FAMILY OF COMPANIES

CE Power Solutions Florida, LLC
Lake Hamilton, FL 33851
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CE Power Solutions Kentucky, LLC
Louisville, KY 40218
800.434.0415

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Independent 3rd Party Service Providers

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Satellite Service Center Location
Alabama

Additional Qualifications

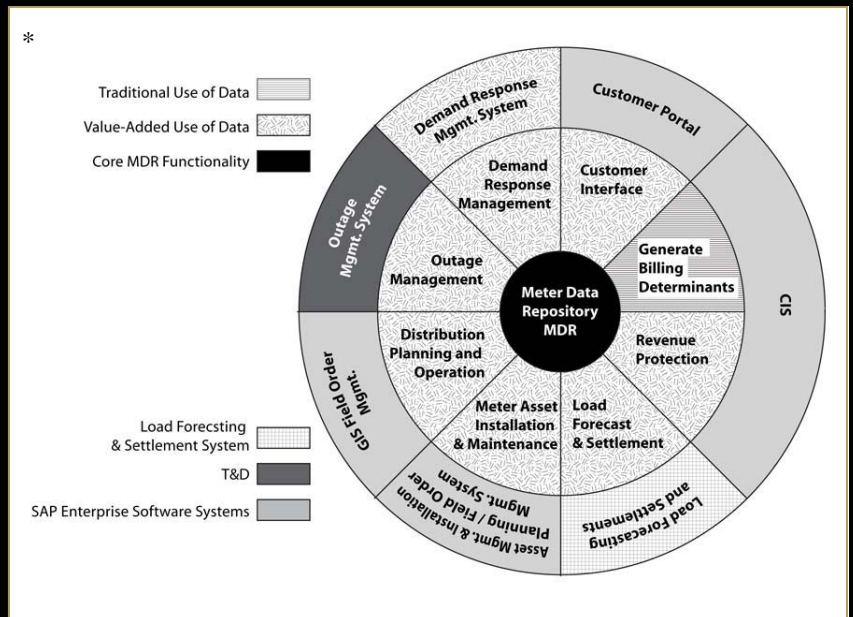
- Development of Field Return/Warranty Return software and associated reporting
- Development of Meter Data Analytics algorithms
- Extensive Protection and Control, Substation Engineering, SCADA and System Automation experience
- Industry Expert in the area of AMI Integrated Smart Meters (AISMs)
- Intricate knowledge of and experience with ANSI C12.1, C12.20, C62.14, C52.45, IEC 1000-4-4; FCC part 15 and UL
- QA program based on ISO9001
- Experience in EMI/RF impact to metrology accuracy, impact of voltage transients on data integrity
- Optimization of RF mesh network
- Technical liaison with firms such as KEMA, QUANTAS, IBM, Cognizant, Accenture
- Created analytical application based on data from AMI systems to realize early detection of issues/failures through event correlations

Why Smart Networks?

- Reduce energy-related costs
- Avoid pitfalls
- Develop new services
- Achieve greater reliability and efficiencies

Why CE Power?

- Our hindsight becomes the client's foresight
- Independent position
- Proven experience with Smart Network, Metering and SCADA
- Integration of variety of solutions
- Dependable
- Industry-leading meter data systems and analytics
- Development of field return/warranty return/asset tracking software & automated reporting
- In-house RF design, modeling, ANSI testing, deployment expertise
- Decades of process change/value chain management/Lean Six-Sigma TQM
- Careers built on energy management, renewable, information management, business intel
- Proven history of design and testing of custom utility solutions that save millions \$\$
- Proven P&C, automation, SCADA, metering expertise from generation to end-point
- Technology expertise



* Graphic provided courtesy of SCE

